Journal of the Operational Research Society (2013) 64, 1869–1876 © 2013 Operational Research Society Ltd. All rights reserved. 0160-5682/13

www.palgrave-journals.com/jors/

INDEX TO VOLUME 64, 2013

AUTHOR AND TITLE INDEX

(Excluding *Book Selection* and *Viewpoints*)
* = Case-Oriented Paper

Achillas, C., Aidonis, D., Vlachokostas, C., Folinas, D. and Moussiopoulos, N.:
Re-designing industrial products on a multi-objective basis: a case study, 1336
Ağralı, S.:
(*see* Selçuk, B.)
Aidonis, D.:
(*see* Achillas, C.)
Ait-Kadi, D.:
(*see* Kazemi Zanjani, M.)
Alarcón, L. F.:
(*see* González, V.)
Albrecht, A. R.:
(*see* Anjomshoa, H.)
Alipouri, Y.:
(*see* Sebt, M. H.)
Amaya, C. -A.:
(*see* Martínez, L.)
Amor, J. D.:
(*see* Mohiuddin, S. G.)
Anjomshoa, H., Albrecht, A. R., Lee, D. H. and Pudney, P. J.:
Optimising passing bay locations and vehicle schedules in underground mines, 241
Anjos, M. F.:
(*see* Bernardi, S.)
Antunes, C. H.:
(*see* Gouveia, M. C.)
Asad, M. W. A. and Dimitrakopoulos, R.:
Implementing a parametric maximum flow algorithm for optimal open pit mine design under uncertain supply and demand, 185
Atkin, J. A. D.:
(*see* Ravizza, S.)
Azadegan, A.:
(*see* Ghazinoory, S.)
Azizi, N. and Liang, M.:
An integrated approach to worker assignment, workforce flexibility acquisition, and task rotation, 260
Azizoğlu, M.:
(*see* Değirmenci, G.)

Barbosa-Póvoa, A. P.:
(*see* Cannella, S.)
Barketau, M., Kopfer, H. and Pesch, E.:
A Lagrangian lower bound for the container transshipment problem at a railway hub for a fast branch-and-bound algorithm, 1614
Battaïa, O.:
(*see* Gurevsky, E.)
Battarra, M.:
(*see* Subramanian, A.)
Baykoç, Ö. F.:
(*see* Sakallı, Ü. S.)
Bayraktar, E., Tatoglu, E. and Zaim, S.:
Measuring the relative efficiency of quality management practices in Turkish public and private universities, 1810
Beasley, J. E.:
(*see* Mezali, H.)
Bell, S. and Morse, S.:
Groups and facilitators within problem structuring processes, 959
Ben-Daya, M.:
(*see* Hariga, M.)
Bengtsson, J., Bredström, D., Flisberg, P. and Rönnqvist, M.:
Robust planning of blending activities at refineries, 848
Benmoussa, A.:
(*see* Martel, A.)
Benoit, D. F.:
(*see* Miguéis, V. L.)
Berman, O., Drezner, Z. and Krass, D.:
Continuous covering and cooperative covering problems with a general decay function on networks, 1644
Bernardi, S. and Anjos, M. F.:
A two-stage mathematical-programming method for the multi-floor facility layout problem, 352
Blancas, F. J., Contreras, I. and Ramírez-Hurtado, J. M.:
Constructing a composite indicator with multiplicative aggregation under the objective of ranking alternatives, 668
Blum, J. M.:
(*see* Mohiuddin, S. G.)
Bolt, T. B.:
(*see* Brailsford, S. C.)
Boter, J.:
(*see* Wruck, S.)
Boysen, N., Emde, S. and Fliedner, M.:
Scheduling train loading with straddle carriers in container yards, 1841
Braide, S., Cao, Z. and Zeng, X.:
Volume discount pricing strategy in the VMI supply chain with price sensitive demand, 833
Brailsford, S. C.:
(*see* Mohiuddin, S. G.)
Brailsford, S. C., Bolt, T. B., Bucci, G., Chaussalet, T. M., Connell, N. A., Harper, P. R., Klein, J. H., Pitt, M. and Taylor, M.:
Overcoming the barriers: a qualitative study of simulation adoption in the NHS, 157
Bredström, D.:
(*see* Bengtsson, J.)
Brennan, J.:
(*see* Kotiadis, K.)
Briskorn, D. and Leung, J. Y. -T.:
Minimizing maximum lateness of jobs in inventory constrained scheduling, 1851
Bucci, G.:
(*see* Brailsford, S. C.)
Burke, E. K.:
(*see* Hyde, M. R.)
Burke, E. K.:
(*see* Ravizza, S.)
Burke, E. K., Gendreau, M., Hyde, M., Kendall, G., Ochoa, G., Özcan, E. and Qu, R.:
Hyper-heuristics: a survey of the state of the art, 1695

Busby, J. S. and Onggo, S.:
Managing the social amplification of risk: a simulation of interacting actors, 638

Çakanyıldırım, M.:
(*see* Çömez, N.)
Camanho, A. S.:
(*see* Zanella, A.)
Cannella, S., Barbosa-Póvoa, A. P., Framinan, J. M. and Relvas, S.:
Metrics for bullwhip effect analysis, 1
Cao, H. W.:
(*see* Xue, C. G.)
Cao, Z.:
(*see* Braide, S.)
Carmichael, D. G.:
(*see* Hosseinian, S. M.)
Castro-Lacouture, D.:
(*see* Florez, L.)
Cattell, D.:
(*see* Skitmore, M.)
Chaney, A. D., Deckro, R. F. and Moore, J. T.:
Scheduling reconstruction operations with modes of execution, 898
Chang, P. -L., Hsu, C. -W. and Cheng, H. -L.:
Building a photovoltaic marketing model based on feed-in tariffs and system installed cost, 1361
Chaussalet, T. M.:
(*see* Brailsford, S. C.)
Chen, F. F.:
(*see* Jiang, Z. Y.)
Cheng, H. -L.:
(*see* Chang, P. -L.)
Cheng, S. -R.:
(*see* Wu, C. -C.)
Chen, H.:
(*see* Miao, D. W. -C.)
Chen, H.:
(*see* Zhang, Z.)
Chen, L. and Ray, S. C.:
Cost efficiency and scale economies in general dental practices in the US: a non-parametric and parametric analysis of Colorado data, 762
Chen, S. -L.:
(*see* Liu, C. -L.)
Cherchye, L.:
(*see* De Witte, K.)
Chih, M.:
A more accurate second-order polynomial metamodel using a pseudo-random number assignment strategy, 198
Choi, K., Haque, M., Lee, H. W., Cho, Y. K. and Kwak, Y. H.:
Macroeconomic labour productivity and its impact on firm's profitability, 1258
Chouinard, M.:
(*see* Martel, A.)
Cho, Y. K.:
(*see* Choi, K.)
Cisternas, F., Donne, D. D., Durán, G., Polgatiz, C. and Weintraub, A.:
Optimizing salmon farm cage net management using integer programming, 735
Cobb, B. R.:
Mixture distributions for modelling demand during lead time, 217
Çömez, N., Çakanyıldırım, M. and Stecke, K. E.:
Optimal transshipments and reassignments under periodic or cyclic holding cost accounting, 1517
Connell, N. A.:
(*see* Brailsford, S. C.)
Contreras, I.:
(*see* Blancas, F. J.)
Corominas, A., García-Villoria, A. and Pastor, R.:
Technical note: a systematic procedure based on CALIBRA and the Nelder & Mead algorithm for fine-tuning metaheuristics, 276

Crowe, J. A.:
(*see* Mohiuddin, S. G.)

Daneshmand-Mehr, M.:
(*see* Ghazinoory, S.)
Deckro, R. F.:
(*see* Chaney, A. D.)
Değirmenci, G. and Azizoğlu, M.:
Branch and bound based solution algorithms for the budget constrained discrete time/cost trade-off problem, 1474
Delanote, S., Leus, R. and Nobibon, F. T.:
Optimization of the annual planning of targeted offers in direct marketing, 1770
Delany, S. J.:
(*see* Kennedy, K.)
Denuit, M., Eeckhoudt, L. and Jokung, O.:
Non-differentiable transformations preserving stochastic dominance, 1441
De Witte, K., Rogge, N., Cherchye, L. and Van Puyenbroeck, T.:
Accounting for economies of scope in performance evaluations of university professors, 1595
Dias, L. C.:
(*see* Gouveia, M. C.)
Dias, T. G.:
(*see* Zanella, A.)
Dikas, G.:
(*see* Mamasis, K.)
Dimitrakopoulos, R.:
(*see* Asad, M. W. A.)
Dingler, M.:
(*see* Lai, Y. -C.)
Dodd, L. and Smith, J. Q.:
Devolving command decisions in complex operations, 17
Dolgui, A.:
(*see* Gurevsky, E.)
Dong, M. Y.:
(*see* Han, S. H.)
Donne, D. D.:
(*see* Cisternas, F.)
Dortmans, P. J. and Durrant, C.:
Employing integrated reference models to represent interdependency in a complex enterprise, 817
Drezner, Z.:
(*see* Berman, O.)
Duarte, A.:
(*see* Gallego, M.)
Durán, G.:
(*see* Cisternas, F.)
Durrant, C.:
(*see* Dortmans, P. J.)
Dye, C. -Y. and Hsieh, T. -P.:
Comment on 'Supply chain model for a deteriorating product with time-varying demand and production rate' by Giri and Maiti, 1693

Edwards, D. J.:
(*see* Love, P. E. D.)
Eeckhoudt, L.:
(*see* Denuit, M.)
Eglese, R.:
(*see* Harwood, K.)
Emde, S.:
(*see* Boysen, N.)
Esmaeilzadeh, A.:
(*see* Hadi-Vencheh, A.)
Estellon, B. and Gardi, F.:
Car sequencing is NP-hard: a short proof, 1503
Etaner-Uyar, A. Ş.:
(*see* Kiraz, B.)

Färe, R., Grosskopf, S. and Margaritis, D.:
Pricing decision-making units, 619
Fatemi Ghomi, S. M. T.:
(*see* Jenabi, M.)
Ferreira, J. S.:
Multimethodology in Metaheuristics, 873
Figini, S. and Uberti, P.:
Concentration measures in risk management, 718
Finlayson, A.:
On the approximation of empirical data for service system simulations, 1021
Fliedner, M.:
(*see* Boysen, N.)
Flisberg, P.:
(*see* Bengtsson, J.)
Florez, L., Castro-Lacouture, D. and Medaglia, A. L.:
Sustainable workforce scheduling in construction program management, 1169
Folinas, D.:
(*see* Achillas, C.)
Framinan, J. M.:
(*see* Cannella, S.)
French, S.:
Cynefin, statistics and decision analysis, 547
Frizelle, G.:
(*see* Wu, Y. R.)

Gallego, M., Laguna, M., Martí, R. and Duarte, A.:
Tabu search with strategic oscillation for the maximally diverse grouping problem, 724
Gallivan, S.:
(*see* Vasilakis, C.)
Gandhi, P.:
(*see* Kotiadis, K.)
García, V.:
(*see* Marqués, A. I.)
García-Villoria, A.:
(*see* Corominas, A.)
Gardi, F.:
(*see* Estellon, B.)
Gendreau, M.:
(*see* Burke, E. K.)
Ghazinoory, S., Daneshmand-Mehr, M. and Azadegan, A.:
Technology selection: application of the PROMETHEE in determining preferences—a real case of nanotechnology in Iran, 884
Ghoniem, A., Scherrer, C. R. and Solak, S.:
A specialized column generation approach for a vehicle routing problem with demand allocation, 114
Giesen, R.:
(*see* Pascual, R.)
González, V., Alarcón, L. F. and Yiu, T. W.:
Integrated methodology to design and manage work-in-process buffers in repetitive building projects, 1182
Gouveia, M. C., Dias, L. C. and Antunes, C. H.:
Super-efficiency and stability intervals in additive DEA, 86
Grosskopf, S.:
(*see* Färe, R.)
Guadalajara, N.:
(*see* Ruá, M. J.)
Gumus, M.:
(*see* Hariga, M.)
Gunawan, A. and Lau, H. C.:
Master physician scheduling problem, 410
Gurevsky, E., Hazır, Ö., Battaïa, O. and Dolgui, A.:
Robust balancing of straight assembly lines with interval task times, 1607

Hadi-Vencheh, A. and Esmaeilzadeh, A.:
A new super-efficiency model in the presence of negative data, 396
Hailu, A.:
(*see* Iftekhar, M. S.)
Hale, T. S., Huq, F., Hipkin, I. and Tucker, C.:
A methodology for estimating expected distances between nodes on a network, 439
Han, S. H., Dong, M. Y., Lu, S. X., Leung, S. C. H. and Lim, M. K.:
Production planning for hybrid remanufacturing and manufacturing system with component recovery, 1447
Haouari, M.:
(*see* Kharbeche, M.)
Haouari, M.:
(*see* Mrad, M.)
Haque, M.:
(*see* Choi, K.)
Hariga, M., Gumus, M., Ben-Daya, M. and Hassini, E.:
Scheduling and lot sizing models for the single-vendor multi-buyer problem under consignment stock partnership, 995
Harper, P. R.:
(*see* Brailsford, S. C.)
Harper, P. R.:
(*see* Smith, H. K.)
Harwood, K., Mumford, C. and Eglese, R.:
Investigating the use of metaheuristics for solving single vehicle routing problems with time-varying traversal costs, 34
Hassini, E.:
(*see* Hariga, M.)
Haughton, M. and Isotupa, K. P. S.:
Flow control in capacity-constrained queueing systems with non-stationary arrivals, 283
Hausken, K.:
(*see* Levitin, G.)
Hayya, J. C., Ramasesh, R. V., Tyworth, J. G., Kim, J. G. and Sun, D.:
JIT delivery with stochastic lead time, 97
Hazır, Ö.:
(*see* Gurevsky, E.)
He, L. and Zhang, L.:
Dynamic priority rule-based forward-backward heuristic algorithm for resource levelling problem in construction project, 1106
Hipkin, I.:
(*see* Hale, T. S.)
Ho, P. H. K.:
Forecasting tender price index under incomplete information, 1248
Hosseinian, S. H.:
(*see* Jenabi, M.)
Hosseinian, S. M. and Carmichael, D. G.:
Optimal gainshare/painshare in alliance projects, 1269
Hsieh, T. -P.:
(*see* Dye, C. -Y.)
Hsu, C. -W.:
(*see* Chang, P. -L.)
Huang, C. -W., Ting, C. -T., Lin, C. -H. and Lin, C. -T.:
Measuring non-convex metafrontier efficiency in international tourist hotels, 250
Huang, H. -C.:
(*see* Li, R.)
Huang, J.:
(*see* Li, R.)
Huang, J. -H.:
(*see* Peng, K. -H.)
Huang, L.:
(*see* Shu, J.)
Huatuco, L. H.:
(*see* Wu, Y. R.)
Huq, F.:
(*see* Hale, T. S.)
Hyde, M.:
(*see* Burke, E. K.)
Hyde, M. R., Burke, E. K. and Kendall, G.:
Automated code generation by local search, 1725

Iftekhar, M. S., Hailu, A. and Lindner, R. K.:
Choice of item pricing feedback schemes for multiple unit reverse combinatorial auctions, 1571
Irani, Z.:
(*see* Zhou, J.)
Ishfaq, R.:
Intermodal shipments as recourse in logistics disruptions, 229
Isotupa, K. P. S.:
(*see* Haughton, M.)
Ito, Y., Managi, S. and Matsuda, A.:
Performances of socially responsible investment and environmentally friendly funds, 1583
James, C. J.:
(*see* Mohiuddin, S. G.)
Janiak, A., Lichtenstein, M. and Kovalyov, M. Y.:
Comment on 'the strong NP-completeness of 3-PARTITION problem with $B \geqslant k^m$' by Zhongyi Jiang, Fangfang Chen, Chunqing Wu, 787
Jenabi, M., Fatemi Ghomi, S. M. T., Torabi, S. A. and Hosseinian, S. H.:
A Benders decomposition algorithm for a multi-area, multi-stage integrated resource planning in power systems, 1118
Jeong, M. K.:
(*see* Park, J. I.)
Jiang, Z. Y., Chen, F. F. and Wu, C. Q.:
The strong NP-completeness of 3-PARTITION problem with $B \geqslant k^m$, 786
Johnson, M.:
(*see* Shipley, M. F.)
Johnson, M. P.:
(*see* Yildiz, H.)
Jokung, O.:
(*see* Denuit, M.)
Jozefowiez, N., Mancel, C. and Mora-Camino, F.:
A heuristic approach based on shortest path problems for integrated flight, aircraft, and passenger rescheduling under disruptions, 384
Jung, K. M., Thomas, L. C. and So, M. M. -C.:
Time varying or static cut-offs for credit scorecards, 1299

Karimi, M.:
(*see* Yaghini, M.)
Kazakov, R.:
(*see* Kunc, M.)
Kazemi Zanjani, M., Nourelfath, M. and Ait-Kadi, D.:
A scenario decomposition approach for stochastic production planning in sawmills, 48
Kelle, P., Schneider, H., Raschke, C. and Shirazi, H.:
Highway improvement project selection by the joint consideration of cost-benefit and risk criteria, 313
Kendall, G.:
(*see* Burke, E. K.)
Kendall, G.:
(*see* Hyde, M. R.)
Kendall, G. and Li, J.:
Competitive travelling salesmen problem: A hyper-heuristic approach, 208
Kennedy, K., Namee, B. M. and Delany, S. J.:
Using semi-supervised classifiers for credit scoring, 513
Kettani, O.:
(*see* Martel, A.)
Kharbeche, M. and Haouari, M.:
MIP models for minimizing total tardiness in a two-machine flow shop, 690
Khoueiry, Y., Srour, I. and Yassine, A.:
An optimization-based model for maximizing the benefits of fast-track construction activities, 1137
Kim, J. G.:
(*see* Hayya, J. C.)
Kim, K., Kim, T. -S., Lim, D. -E. and Park, H. M.:
Managing the supply and demand uncertainty in workforce recruitment: planned or just-in-time acquisition, 1654
Kim, N.:
(*see* Park, J. I.)
Kim, S.:
A column generation heuristic for congested facility location problem with clearing functions, 1780
Kim, T. -S.:
(*see* Kim, K.)
Kiraz, B., Etaner-Uyar, A. Ş. and Özcan, E.:
Selection hyper-heuristics in dynamic environments, 1753
Kleijnen, J. P. C. and van Beers, W. C. M.:
Monotonicity-preserving bootstrapped Kriging metamodels for expensive simulations, 708
Klein, J. H.:
(*see* Brailsford, S. C.)
Klibi, W.:
(*see* Martel, A.)
Kopfer, H.:
(*see* Barketau, M.)
Kotiadis, K., Tako, A. A., Rouwette, E. A. J. A., Vasilakis, C., Brennan, J., Gandhi, P., Wegstapel, H., Sagias, F. and Webb, P.:
Using a model of the performance measures in Soft Systems Methodology (SSM) to take action: a case study in health care, 125
Kovalyov, M. Y.:
(*see* Janiak, A.)
Krass, D.:
(*see* Berman, O.)
Kulluk, S.:
A novel hybrid algorithm combining hunting search with harmony search algorithm for training neural networks, 748
Kunc, M. and Kazakov, R.:
Competitive dynamics in pharmaceutical markets: A case study in the chronic cardiac disease market, 1790
Kuo, M. -E.:
(*see* Lo, W.)
Kwak, Y. H.:
(*see* Choi, K.)

Laguna, M.:
(*see* Gallego, M.)
Lai, Y. -C., Dingler, M., Lin, S. -Y. and Liu, K. -C.:
Optimal track class assignment for a railroad network, 1800
Lau, H. C.:
(*see* Gunawan, A.)
Lau, H. C.:
(*see* Lindawati)
Lee, D. H.:
(*see* Anjomshoa, H.)
Lee, H. W.:
(*see* Choi, K.)
Lee, S.:
Centrality-based ambulance dispatching for demanding emergency situations, 611
Lee, S. -K. and Yu, J. -H.:
Composite indicator development using utility function and fuzzy theory, 1279
Leung, J. Y. -T.:
(*see* Briskorn, D.)
Leung, S. C. H.:
(*see* Han, S. H.)
Leus, R.:
(*see* Delanote, S.)
Levitin, G. and Hausken, K.:
Defence resource distribution between protection and decoys for constant resource stockpiling pace, 1409

Liang, M.:
(*see* Azizi, N.)
Li, B.:
(*see* Xuan, H.)
Lichtenstein, M.:
(*see* Janiak, A.)
Li, G.:
(*see* Xiong, Y.)
Li, J.:
(*see* Kendall, G.)
Lim, D. -E.:
(*see* Kim, K.)
Lim, M. K.:
(*see* Han, S. H.)
Lin, C. -H.:
(*see* Huang, C. -W.)
Lin, C. -T.:
(*see* Huang, C. -W.)
Lindawati, Lau, H. C. and Lo, D.:
Clustering of search trajectory and its application to parameter tuning, 1742
Lindner, R. K.:
(*see* Iftekhar, M. S.)
Lin, S. -W. and Ying, K. -C.:
Increasing the total net revenue for single machine order acceptance and scheduling problems using an artificial bee colony algorithm, 293
Lin, S. -Y.:
(*see* Lai, Y. -C.)
Li, R., Huang, H. -C. and Huang, J.:
Heuristic algorithms for general k-level facility location problems, 106
Liu, C. -L. and Chen, S. -L.:
Risk sharing in the supplier relations for the Taiwanese automotive industry, 365
Liu, J. J.:
(*see* Xue, C. G.)
Liu, J., Liu, S. -F., Liu, P., Zhou, X. -Z. and Zhao, B.:
A new decision support model in multi-criteria decision making with intuitionistic fuzzy sets based on risk preferences and criteria reduction, 1205
Liu, K. -C.:
(*see* Lai, Y. -C.)
Liu, P.:
(*see* Liu, J.)
Liu, Q.:
(*see* Sun, B.)
Liu, S. -F.:
(*see* Liu, J.)
Liu, Z.:
(*see* Wang, S.)
Li, Z.:
(*see* Shu, J.)
Lo, D.:
(*see* Lindawati)
Logendran, R.:
(*see* Lu, D.)
Lou, K. -R. and Wang, W. -C.:
Optimal trade credit and order quantity when trade credit impacts on both demand rate and default risk, 1551
Love, P. E. D.:
(*see* Zhou, J.)
Love, P. E. D., Sing, C. -P., Wang, X., Edwards, D. J. and Odeyinka, H.:
Probability distribution fitting of schedule overruns in construction projects, 1231
Lo, W. and Kuo, M. -E.:
Cost impact of float loss on a project with adjustable activity durations, 1147
Lowe, T. J. and Sim, T.:
The hub covering flow problem, 973
Lu, D. and Logendran, R.:
Bi-criteria group scheduling with sequence-dependent setup time in a flow shop, 530
Lu, S. X.:
(*see* Han, S. H.)
Maathuis, M. H.:
(*see* Ravizza, S.)
MacDonald, L.:
(*see* Paul, J. A.)
Magill, E. H.:
(*see* Mohiuddin, S. G.)
Mamasis, K., Minis, I. and Dikas, G.:
Managing vehicle breakdown incidents during urban distribution of a common product, 925
Managi, S.:
(*see* Ito, Y.)
Mancel, C.:
(*see* Jozefowiez, N.)
Margaritis, D.:
(*see* Färe, R.)
Marqués, A. I., García, V. and Sánchez, J. S.:
A literature review on the application of evolutionary computing to credit scoring, 1384
Marqués, A. I., García, V. and Sánchez, J. S.:
On the suitability of resampling techniques for the class imbalance problem in credit scoring, 1060
Martel, A., Benmoussa, A., Chouinard, M., Klibi, W. and Kettani, O.:
Designing global supply networks for conflict or disaster support: the case of the Canadian Armed Forces, 577
Martínez, A.:
(*see* Pascual, R.)
Martínez, L. and Amaya, C. -A.:
A vehicle routing problem with multi-trips and time windows for circular items, 1630
Martí, R.:
(*see* Gallego, M.)
Matsuda, A.:
(*see* Ito, Y.)
Ma, W.:
(*see* Sun, B.)
Mayorga, R. V.:
(*see* Peng, W.)
Medaglia, A. L.:
(*see* Florez, L.)
Meftahi, I.:
(*see* Mrad, M.)
Meng, Q.:
(*see* Wang, S.)
Meng, S. and Shia, B. -C.:
Set covering location models with stochastic critical distances, 945
Mezali, H. and Beasley, J. E.:
Quantile regression for index tracking and enhanced indexation, 1676
Miao, D. W. -C. and Chen, H.:
A generalised Little's law and its applications for a discrete-time G/D/1 queue with correlated arrivals, 679
Miguéis, V. L., Benoit, D. F. and Van den Poel, D.:
Enhanced decision support in credit scoring using Bayesian binary quantile regression, 1374
Minis, I.:
(*see* Mamasis, K.)
Mohiuddin, S. G., Brailsford, S. C., James, C. J., Amor, J. D., Blum, J. M., Crowe, J. A., Magill, E. H. and Prociow, P. A.:
A multi-state model to improve the design of an automated system to monitor the activity patterns of patients with bipolar disorder, 372
Moore, J. T.:
(*see* Chaney, A. D.)
Mora-Camino, F.:
(*see* Jozefowiez, N.)

Morse, S.:
(*see* Bell, S.)
Mostafaee, A.:
An equitable method for allocating fixed costs by using data envelopment analysis, 326
Moussiopoulos, N.:
(*see* Achillas, C.)
Mrad, M., Meftahi, I. and Haouari, M.:
A branch-and-price algorithm for the two-stage guillotine cutting stock problem, 629
Mumford, C.:
(*see* Harwood, K.)
Muyldermans, L.:
(*see* Pang, G.)

Namee, B. M.:
(*see* Kennedy, K.)
Nobibon, F. T.:
(*see* Delanote, S.)
Nourelfath, M.:
(*see* Kazemi Zanjani, M.)

Ochoa, G.:
(*see* Burke, E. K.)
Odeyinka, H.:
(*see* Love, P. E. D.)
Oliver, R. M. and Thaker, A. M.:
Adverse selection and non-take inference with coherent risk and response scoring, 70
Onggo, S.:
(*see* Busby, J. S.)
Ormerod, R. J.:
A Long View of Research and Practice in Operations Research and Management Science: The Past and the Future, 1865
Ormerod, R. J.:
Logic and rationality in OR interventions: an examination in the light of the 'critical rationalist' approach, 469
Osman, H. E.:
Modeling and Simulation for Analyzing Global Events, 1867
Özcan, E.:
(*see* Burke, E. K.)
Özcan, E.:
(*see* Kiraz, B.)
Pagel, C.:
(*see* Vasilakis, C.)
Pang, G. and Muyldermans, L.:
Vehicle routing and the value of postponement, 1429
Park, H. M.:
(*see* Kim, K.)
Park, J. I., Kim, N., Jeong, M. K. and Shin, K. S.:
Multiphase support vector regression for function approximation with break-points, 775
Pascual, R., Martínez, A. and Giesen, R.:
Joint optimization of fleet size and maintenance capacity in a fork-join cyclical transportation system, 982
Pastor, R.:
(*see* Corominas, A.)
Paul, J. A. and MacDonald, L.:
Determination of number of dedicated OR's and supporting pricing mechanisms for emergent surgeries, 912
Peng, K. -H., Huang, J. -H. and Wu, W. -H.:
Rasch model in data envelopment analysis: application in the international tourist hotel industry, 938
Peng, W. and Mayorga, R. V.:
An interval-coefficient fuzzy binary linear programming, the solution, and its application under uncertainties, 1557
Pesch, E.:
(*see* Barketau, M.)
Petrovic, S.:
(*see* Vázquez-Rodríguez, J. A.)
Pitt, M.:
(*see* Brailsford, S. C.)
Pointer, L.:
(*see* Shipley, M. F.)
Polgatiz, C.:
(*see* Cisternas, F.)
Potts, C. N.:
(*see* Smith, H. K.)
Prociow, P. A.:
(*see* Mohiuddin, S. G.)
Pudney, P. J.:
(*see* Anjomshoa, H.)

Qu, R.:
(*see* Burke, E. K.)

Rahbar, M.:
(*see* Yaghini, M.)
Ramamoorthy, S.:
Games, Groups and the Global Good, 1867
Ramasesh, R. V.:
(*see* Hayya, J. C.)
Ramírez-Hurtado, J. M.:
(*see* Blancas, F. J.)
Ranjbar, M.:
A path-relinking metaheuristic for the resource levelling problem, 1071
Raschke, C.:
(*see* Kelle, P.)
Ratkiewicz, A.:
A combined bi-level approach for the spatial design of rack storage area, 1157
Ravizza, S., Atkin, J. A. D., Maathuis, M. H. and Burke, E. K.:
A combined statistical approach and ground movement model for improving taxi time estimations at airports, 1347
Ray, S. C.:
(*see* Chen, L.)
Relvas, S.:
(*see* Cannella, S.)
Richards, D.:
(*see* Vasilakis, C.)
Roehrig, S.:
(*see* Yildiz, H.)
Rogge, N.:
(*see* De Witte, K.)
Rönnqvist, M.:
(*see* Bengtsson, J.)
Rouwette, E. A. J. A.:
(*see* Kotiadis, K.)
Royston, G.:
Operational Research for the Real World: big questions from a small island, 793
Ruá, M. J. and Guadalajara, N.:
Application of Compromise Programming to a semi-detached housing development in order to balance economic and environmental criteria, 459

Sagias, F.:
(*see* Kotiadis, K.)
Sakallı, U. Ü. and Baykoç, Ö. F.:
Strong guidance on mitigating the effects of uncertainties in the brass casting blending problem: a hybrid optimization approach, 562
Sánchez, J. S.:
(*see* Marqués, A. I.)
Sbihi, A.:
Adaptive perturbed neighbourhood search for the expanding capacity multiple-choice knapsack problem, 1461
Schaller, J. and Valente, J. M. S.:
An evaluation of heuristics for scheduling a non-delay permutation flow

shop with family setups to minimize total earliness and tardiness, 805
Scherrer, C. R.:
(*see* Ghoniem, A.)
Schneider, H.:
(*see* Kelle, P.)
Sebt, M. H., Alipouri, Y. and Alipouri, Y.:
Solving resource-constrained project scheduling problem with evolutionary programming, 1327
Selçuk, B. and Ağrah, S.:
Joint spare parts inventory and reliability decisions under a service constraint, 446
Shah, J.:
(*see* Swami, S.)
Shia, B. -C.:
(*see* Meng, S.)
Shin, K. S.:
(*see* Park, J. I.)
Shipley, M. F., Johnson, M., Pointer, L. and Yankov, N.:
A fuzzy attractiveness of market entry (FAME) model for market selection decisions, 597
Shirazi, H.:
(*see* Kelle, P.)
Shu, J., Li, Z. and Huang, L.:
Demand selection decisions for a multi-echelon inventory distribution system, 1307
Shu, J., Wang, G. and Zhang, K.:
Logistics distribution network design with two commodity categories, 1400
Simmons, D. E.:
The effect of non-linear delay costs on workforce mix, 1622
Sim, T.:
(*see* Lowe, T. J.)
Sing, C. -P.:
(*see* Love, P. E. D.)
Skitmore, M. and Cattell, D.:
On being balanced in an unbalanced world, 138
Smart, J.:
(*see* Wu, Y. R.)
Smart, J.:
Modeling Complex Living Systems: A Kinetic Theory and Stochastic Game Approach, 1866
Smith, H. K., Harper, P. R. and Potts, C. N.:
Bicriteria efficiency/equity hierarchical location models for public service application, 500
Smith, J. Q.:
(*see* Dodd, L.)
Solak, S.:
(*see* Ghoniem, A.)
So, M. M. -C.:
(*see* Jung, K. M.)
Sommerville, J.:
(*see* Vidalakis, C.)
Srour, I.:
(*see* Khoueiry, Y.)
Stecke, K. E.:
(*see* Çömez, N.)
Subramanian, A. and Battarra, M.:
An iterated local search algorithm for the Travelling Salesman Problem with Pickups and Deliveries, 402
Sun, B., Ma, W. and Liu, Q.:
An approach to decision making based on intuitionistic fuzzy rough sets over two universes, 1079
Sun, D.:
(*see* Hayya, J. C.)
Swami, S. and Shah, J.:
Channel coordination in green supply chain management, 336

Tako, A. A.:
(*see* Kotiadis, K.)
Taroun, A. and Yang, J. -B.:
A DST-based approach for construction project risk analysis, 1221
Tatoglu, E.:
(*see* Bayraktar, E.)
Taylor, M.:
(*see* Brailsford, S. C.)
Teo, K. L.:
(*see* Zhou, J.)
Thaker, A. M.:
(*see* Oliver, R. M.)
Thank you to our Referees, 788
Thomas, L. C.:
(*see* Jung, K. M.)
Ting, C. -T.:
(*see* Huang, C. -W.)
Tookey, J. E.:
(*see* Vidalakis, C.)
Torabi, S. A.:
(*see* Jenabi, M.)
Tsolas, I. E.:
Construction project monitoring by means of RAM-based composite indicators, 1291
Tucker, C.:
(*see* Hale, T. S.)
Tyworth, J. G.:
(*see* Hayya, J. C.)

Uberti, P.:
(*see* Figini, S.)
Utley, M.:
(*see* Vasilakis, C.)

Valente, J. M. S.:
(*see* Schaller, J.)
van Beers, W. C. M.:
(*see* Kleijnen, J. P. C.)
Van den Poel, D.:
(*see* Miguéis, V. L.)
Van Hui, Y.:
(*see* Zhang, Z.)
Van Puyenbroeck, T.:
(*see* De Witte, K.)
Vasilakis, C.:
(*see* Kotiadis, K.)
Vasilakis, C., Pagel, C., Gallivan, S., Richards, D., Weaver, A. and Utley, M.:
Modelling toolkit to assist with introducing a stepped care system design in mental health care, 1049
Vázquez-Rodriguez, J. A. and Petrovic, S.:
A mixture experiments multi-objective hyper-heuristic, 1664
Vidalakis, C., Tookey, J. E. and Sommerville, J.:
Demand uncertainty in construction supply chains: a discrete event simulation study, 1194
Vis, I. F. A.:
(*see* Wruck, S.)
Vlachokostas, C.:
(*see* Achillas, C.)

Wang, G.:
(*see* Shu, J.)
Wang, H. -F. and Zheng, K. -W.:
Application of fuzzy linear programming to aggregate production plan of a refinery industry in Taiwan, 169
Wang, S.:
(*see* Wang, Y. M.)
Wang, S., Meng, Q. and Liu, Z.:
On the weighting of the mean-absolute-deviation cost minimization model, 622
Wang, W. -C.:

(*see* Lou, K. -R.)
Wang, X.:
(*see* Love, P. E. D.)
Wang, X.:
(*see* Zhou, J.)
Wang, Y. M. and Wang, S.:
Approaches to determining the relative importance weights for cross-efficiency aggregation in data envelopment analysis, 60
Weaver, A.:
(*see* Vasilakis, C.)
Webb, P.:
(*see* Kotiadis, K.)
Wegstapel, H.:
(*see* Kotiadis, K.)
Weintraub, A.:
(*see* Cisternas, F.)
Wruck, S., Vis, I. F. A. and Boter, J.:
Time-restricted batching models and solution approaches for integrated forward and return product flow handling in warehouses, 1505
Wu, C. -C., Yin, Y. and Cheng, S. -R.:
Single-machine and two-machine flowshop scheduling problems with truncated position-based learning functions, 147
Wu, C. Q.:
(*see* Jiang, Z. Y.)
Wu, W. -H.:
(*see* Peng, K. -H.)
Wu, Y. R., Huatuco, L. H., Frizelle, G. and Smart, J.:
A method for analysing operational complexity in supply chains, 654

Xiong, Y. and Li, G.:
The value of dynamic pricing for cores in remanufacturing with backorders, 1314
Xuan, H. and Li, B.:
Scheduling dynamic hybrid flowshop with serial batching machines, 825
Xue, C. G., Liu, J. J. and Cao, H. W.:
Research on competition diffusion of the multiple-advanced manufacturing mode in a cluster environment, 864
Xu, Z. S.:
(*see* Zhu, B.)

Yaghini, M., Rahbar, M. and Karimi, M.:
A hybrid simulated annealing and column generation approach for capacitated multicommodity network design, 1010
Yang, J. -B.:
(*see* Taroun, A.)
Yankov, N.:
(*see* Shipley, M. F.)
Yassine, A.:
(*see* Khoueiry, Y.)
Yildiz, H., Johnson, M. P. and Roehrig, S.:
Planning for meals-on-wheels: algorithms and application, 1540
Ying, K. -C.:
(*see* Lin, S. -W.)
Yin, Y.:
(*see* Wu, C. -C.)
Yiu, T. W.:
(*see* González, V.)
Yu, J. -H.:
(*see* Lee, S. -K.)

Zaim, S.:
(*see* Bayraktar, E.)
Zanella, A., Camanho, A. S. and Dias, T. G.:
Benchmarking countries' environmental performance, 426
Zarracina, M. L.:
Heavy fuel oil analysis at Iraq's Bayji refinery, 488
Zeng, X.:
(*see* Braide, S.)
Zhang, K.:
(*see* Shu, J.)
Zhang, L.:
(*see* He, L.)
Zhang, Z., Van Hui, Y. and Chen, H.:
A forward and reverse logistics shipment planning model, 1485
Zhao, B.:
(*see* Liu, J.)
Zheng, K. -W.:
(*see* Wang, H. -F.)
Zhen, L.:
Yard template planning in transshipment hubs under uncertain berthing time and position, 1418
Zhou, D.:
(*see* Zhou, Y. -W.)
Zhou, J., Love, P. E. D., Wang, X., Teo, K. L. and Irani, Z.:
A review of methods and algorithms for optimizing construction scheduling, 1091
Zhou, X. -Z.:
(*see* Liu, J.)
Zhou, Y. -W. and Zhou, D.:
Determination of the optimal trade credit policy: a supplier-Stackelberg model, 1030
Zhu, B. and Xu, Z. S.:
Hesitant fuzzy Bonferroni means for multi-criteria decision making, 1831

Journal of the Operational Research Society (2013) 64, 1877–1880 © 2013 Operational Research Society Ltd. All rights reserved. 0160-5682/13

www.palgrave-journals.com/jors/

SUBJECT INDEX

(This index includes all *papers*)

Activity signatures 372
Adjoint transformation 619
Adverse selection 70
Agency theory 365
Agent-based model 1571
Airport operations 1347
Air transport 384
Air transport application 973
Algorithm 1091
Alliances 1269
Alpha-value 1557
Ambulance dispatching 611
AR(1) 97
Artificial bee colony algorithm 293
Assembly line balancing 1607
Asset management 982
Attack 1409
Australia 1231

Banking 513
Batch decomposition 825
Batching 1505
Bayesian estimation 1374
Behaviour 17
Benchmarking 426, 513
Benders decomposition 1118
Bicriteria 500
Bi-criteria 530
Big segment small segment 1644
Bin packing 1630
Bipolar disorder 372
Blending problem 562
BLP 1557
Bonferroni mean (BM) 1831
Bootstrapping 708
Branch and bound 1851
Branch-and-bound algorithm 1607, 1614
Branch-and-price 629
Brass casting 562
Break-points 775
Budget problem 1474
Buffer design and management 1182
Building 459

CALIBRA 276
Capacitated multicommodity minimum cost flow problem 1010
Capacitated multicommodity network design problem 1010
Capacitated vehicle routing problem 1429
Care pathway modelling 157
Car sequencing 1503
Census data 1258
Centrality 611
Centrally managed inventory 1517
Channel integration 336
Circle packing 1630
City logistics 925
Classification 1374, 1384
Class imbalance 1060
Cluster analysis 426
Column generation 1010, 114, 1780
Combinatorial optimisation 1695, 1307, 1461
Community OR 1540
Competition diffusion 864
Composite generation and transmission planning 1118
Composite indicator 1279, 668

Compromise Programming 459
Computational complexity 106, 1503
Concentration index 718
Conditional efficiency 1595
Conflict analysis 17
Congestion 1780, 34
Construction 1091, 1137, 1169, 1194, 1221, 1258
Construction project 1106
Container processing 1841
Container terminals 1418
Contest success function 1409
Continuous approximation theory 1429
Continuous covering 1644
Continuous review 217
Convex metafrontier 250
Convex programming 352
Cooperative contracting 1269
Cooperative covering 1644
Correlated arrivals 679
Cost efficiency 762
Cost reduction 982
Cox distributions 1021
Creativity 873
Credit scoring 1060, 1299, 1374, 1384, 513
Crisping process 1557
Criteria reduction 1205
Critical rationalism 469
Cross-efficiency aggregation weights 60
Cross-efficiency evaluation 60
Cutting plane 1400
Cyclic network 982
Cynefin 547

Data envelopment analysis (DEA) 396, 1291, 1595, 1810, 313, 326, 426, 60, 762, 86, 938, 619, 250, 668
Decision analysis 17, 547, 597
Decision making 1361, 884
Decision support 1205, 1753, 864
Decision support system 1221, 313, 848, 1049, 217, 912
Decision trees 426
Default risk 1551
Defence 1409
Defence studies 17, 817
Defuzzificaiton process 1557
Degree of competition 1571
Delay costs 1622
Delivery schedule 995
Demand amplification 1
Demand during lead time 217
Demand selection 1307
Demand side management 1118
Demand uncertainty 1194
Dempster–Shafer Theory of Evidence 1221
Dental care 762
Design for environment 1336
Design of experiments 1664
Detection 138
Developing countries 1790
Diet problem 619
Direct marketing 1770
Disaster 611
Discrete-time G/D/1 queue 679
Disruption 229
Distribution 1194, 336
Distribution fitting 1231

Distribution networks 114
Distribution vehicle breakdown 925
Diversity problems 724
Divided differences 1441
Downtime 446
Drug policy 1790
Dynamic cut-off adjustments 1299
Dynamic environments 1753
Dynamic HFS scheduling 825
Dynamic pricing 1314
Dynamic priority rule 1106

Economies of scale 762
Economies of scope 1595
Effective delivery times 97
Effectiveness 938
Efficiency 326
Ekern increase in risk 1441
Elliptic integral 439
Emergent surgeries 912
Energy 459, 488
Engineering 1157
Enhanced indexation 1676
Entropy 654
Environment 336
Environmentally friendly fund 1583
Environmental performance 426
Environmental studies 459
EOQ 1030
Equity 500
Evidential Reasoning 1221
Evolutionary algorithms 1664
Evolutionary computation 1384, 1695
Evolutionary programming 1327
Expanding 1461
Expected distance functions 439
Exponential effect 945

Facilitation 125, 959
Facilities planning and design 352
Facility layout 352
Facility location 106, 1780
Facility location with submodular costs 1400
False target 1409
Family setups 805
Fast-tracking 1137
Feed-in tariffs 1361
Field service 1622
Fill rate 446
Fine-tuning 276
Fixed cost allocation 326
Flexibility 1622, 229
Flowshop 147, 690, 805
Fork-join queueing network 982
Forward-backward scheduling 1106
Forward logistics 1485
Function approximation 775
Fund performance 1583
Fuzzy approximation space over two universes 1079
Fuzzy integral 1279
Fuzzy linear programming 169
Fuzzy measure uncertainty analysis 1279
Fuzzy sets 597

Game theory 17, 208
Generic feature 1742
Genetic algorithms 1147, 1384, 775
Genetic programming 1725
Global optimization 352
Green supply chain management 336
Grey model 1248
Grid-connected PV systems 1361
Gross margin 1258

Ground movement 1347
Guillotine cutting 629

Harmony search algorithm 748
Health service 1049, 125, 157, 1790, 410, 500
Hesitant Bonferroni element (HBE) 1831
Hesitant fuzzy Bonferroni mean (HFBM) 1831
Hesitant fuzzy set (HFS) 1831
Heuristic 106
Heuristic procedure 995
Heuristics 1106, 1157, 1505, 1540, 1725, 1753, 208, 260, 402, 748, 805
Hierarchical 500
Higher education 1595
Higher moments 679
Highway improvement project 313
History of O.R 793
Hospitals 1021, 912
Hub cover 973
Hub location 973
Hunting search algorithm 748
Hybrid approach 1010
Hyper-heuristic 208, 1664, 1695, 1753
Hyperparameter optimization 775
Hyperplane 396

Improved Lagrangian relaxation 825
Incomplete information 1248
Index tracking 1676
Inequalities measures 718
Information theory 654
Instance-based automated parameter tuning 1742
Integer programming 1169, 1461, 1770, 1780, 241, 735, 973
Integrated resource planning 1118
Intermodal 229
International tourist hotel 938, 250
Interval-fuzzy-binary 1557
Intuitionistic fuzzy rough sets 1079
Intuitionistic fuzzy sets 1205
Inventory 1551, 217, 446
Inventory consignment 995
Inventory constraints 1851
Inventory management 1
Inventory sharing 1517
Iran 884
Item pricing feedback 1571
Iterated local search 402
Iterative combinatorial auction 1571

Kernel selection 775
Knapsack 1461
Knowledge management 547
Kriging 708

Labour productivity 1258
Lagrangian relaxation 1614, 185
Learning curves 1361
Linear programming 106, 1291, 1614
Linear programming model 1447
Little's law 679
Local search 1429, 1725
Local search algorithm 1742
Location 1540, 1644, 500, 945, 973
Location and vehicle routing 114
Logistic regression 1060
Logistics 1157, 1194, 1505, 577
Logistics network design 1400
Log odds score relationships 1299
Lot sizing 995
Low-default portfolio 513
Lower bounds 1614
Machine learning 1695
Machine scheduling 1851

Manufacturing 1447
Manufacturing systems 654
Maritime logistics 735
Marketing 597
Market selection 597
Markov Chain Monte Carlo 1374
Markov decision process 1314
Master physician scheduling and rostering problem 410
Mathematical programming 410
Maximum flow algorithm 185
MBFDP 825
MCDA 884
Mean-absolute-deviation 622
Mean-variance model 1583
Measures of performance 125
Mental health 372
Metaheuristics 1461, 1695, 1753, 276, 724, 873
Military 577, 898
Minimization of maximum lateness 1851
Mining 241
Mining productivity 982
MIP formulation 690
Mixed-integer programming 530
Mixture distributions 217
Mixture experiments 1664
Monte Carlo simulation 372
Moral hazard 365
Moving peaks benchmark 1753
Multi-channel strategies 1770
Multi-criteria 1279
Multi-criteria analysis 86
Multi-criteria decision making (MCDM) 1831, 1205, 597
Multidisciplinary teams 125
Multi-echelon inventory management 1307
Multimethodology 873
Multi-objective 1505, 1540, 17, 622, 898
Multiobjective analytic model 1182
Multi-objective optimisation 1664
Multiphase support vector regression 775
Multiple advanced manufacturing modes 864
Multiple-choice 1461
Multiple criteria selection 313
Multiple linear regression 1347
Multiple objective integer programming 1336
Multiple trips 1630
Multiplicative aggregation 668

Nanotechnology 884
Negative data 396
Nelder and Mead 276
Network model 439
Network optimization 1800
Network reliability 198
Networks 1644
Networks and graphs 384
Neural networks 748
Non-convex metafrontier 250
Non-linear programming 1780
Non-take inference 70
NP-complete 106
NP-hardness proof 1503

Oil 488, 848
One-class classification 513
Open pit mine optimization 185
Operational complexity 654
2-Opt 34
Optimal gainshare/painshare 1269
Optimisation 1336, 1505, 241, 106, 1091, 1106, 1137, 1147, 1157, 1551, 410, 446, 459, 622, 848, 898
Order acceptance and scheduling problem 293
Order crossover 97
Overlapping 1137

Package selection strategy 1571
Parameter estimation 1021
Parameter optimization 1384
Parameter setting 276
Pareto front 1182
Path-relinking 1071
Performance 938
Performance measure 1
Performance measurement 250
Personalised ambient monitoring 372
Pharmaceutical markets 1790
Philosophy of OR 469, 793
Philosophy of practice 469
Pickup and delivery 402
Planning 384, 735, 848
Portfolio optimisation 1676
Port operation 1418
Possibilistic programming 562
Postponement 1429
Power systems 1118
Practice of operations research 912
Practice of OR 1049, 125, 1790, 793, 817
Preferences 410
Price-response elasticities 70
Price-risk 70
Pricing model 488
Probability 1231, 217
Probability distribution 1231
Problem structuring 817
Problem structuring methods 959
Process of OR 469
Product acquisition 1314
Product bundling 1770
Production 488, 848
Production planning 1447, 48
Profit 138
Profit-effective 169
Profit maximization 619
Progressive hedging 48
Project management 1169, 1258, 1291, 1327, 1474, 898
Project scheduling 1071
PROMETHEE 884
Promotion campaigns 1770
Protection 1409
Pseudo-random number assignment 198
Public and private universities 1810
Public project 313

Quality management 1810
Quantile regression 1374, 1676
Queueing 679, 708, 912
Queueing models 1021
Queue management 283
Queuing 1049, 1622

Rail transportation 1800
Random key representation 1327
Range directional model (RDM) 396
Ranking 668
Rasch model 938
Real-world scheduling support 1347
Recourse 229
Recovery 1447
Recruiting strategy 1654
Re-design 1336
Reference models 817
Reference point 654
Regression analysis 1258
Relax-and-fix 114
Reliability 446
Reliable commitment model 1182
Remanufacturing 1314, 1447
Resampling 1060

Resource-constrained project scheduling 1327
Resource integration 1147
Resource levelling 1106
Resource levelling problem 1071
Response surface metamodel 198
Response surface methodology 1664
Response time 611
Retail credit 70
Returns to scale 326
Reverse logistics 1485
Rework 1137
Risk 718, 848
Risk and response scoring 70
Risk assessment 1221
Risk aversion 1269
Risk based pricing 70
Risk management 638
Risk perception 638
Risk preferences 1205
Risk sharing 365
Road Timetable 34
Road transport 283
Robustness analysis 86
Robust optimization 1607

Sawmills 48
Scenario tree 48
Schedule overrun 1231
Scheduling 1091, 1169, 147, 1695, 1841, 410, 805, 898
s-concavity 1441
Search trajectory 1742
Sea transport 735
Sectoral credit risk 718
Sense-making 547
Sensitivity analysis 708
Sensitivity and evolution 1137
Sequence alignment 1742
Sequence-dependent setup times 293, 530
Serial batching machines 825
Service operations 1622
Service planning 157
Set covering problem 945
Shipment planning 1485
Simulated annealing 1010
Simulating annealing 1644
Simulation 1021, 1194, 157, 1622, 1654, 198, 283, 488, 638, 708, 864, 912
Simulation-optimisation 1182
s-increasing concavity 1441
Single-machine 147, 293
Single-name credit risk 718
Social amplification of risk framework 638
Socially responsible investment fund 1583
Soft OR 873
Soft systems methodology 817
Software 157
Solar energy policy 1361
Spare parts 446
SSM 125
Stability intervals 86
Statistical analysis 1347
Statistical inference 547
Stochastic critical distance 945
Stochastic dominance 97
Stochastic frontier analysis 1810, 762
Stochastic inventory control 1517
Stochastic mixed-integer programming 48
Stochastic modelling 1654
Stochastic programming 562, 577
Storage area design 1157
Straddle carriers 1841
Strategic choice approach 873
Strategic oscillation 724
Strategic planning 577
Subgradient method 185
Super-efficiency 396, 86
Supervised classification 513
Supervised training 748
Supplier's risk sharing contract 365
Supplier-Stackelberg setting 1030
Supply and demand 1654
Supply chain 1030, 654
Supply chain coordination 336
Supply chain costs 1
Supply chain management 833
Support vector machine 1060
SWOT analysis 873
Symmetry-defeating constraints 114
System dynamics 1, 1790, 638, 864
Systems thinking 817

Tabu search 530
Task rotation 260
Taxi time prediction 1347
Teaching-research nexus 1595
Team orienteering problem 925
Technology acceptance 157
Technology selection 884
Telecommunications 679
Tender price index 1248
Time-cost trade-off 1147
Time-dependent arrivals 283
Time/cost trade-off 1474
Time varying 34
Time windows 1630
Total tardiness 690
Track class 1800
Track maintenance 1800
Trade credit 1030, 1551
Train processing 1841
Transport 1157, 241
Transportation modelling 439
Transportation safety 313
Transshipment hubs 1418
Travelling salesman 402
Travelling salesmen problem 208
Truncated learning function 147
Turkey 1810
Two-stage cutting stock 629

Unbalanced bidding 138
Uncertain demand and cost 169
Uncertainty 1557, 1607, 86
Uncertainty decision 1079
Urban distribution 925
Utility function 1279

Valuation of dmus 619
Variable selection 1384
Vehicle routing 1540, 1630, 34, 925
Vendor managed inventory 833
Volume discount scheme 833
Vulnerability 1409

Warehousing 1505
Weighted degree 611
Worker assignment 260
Workforce flexibility 260
Workforce management 1654
Work-in-process 1182
Workshops 959

Yard template 1418

Zoonosis 638

Journal of the Operational Research Society (2013) 64, 1881 © 2013 Operational Research Society Ltd. All rights reserved. 0160-5682/13

www.palgrave-journals.com/jors/

VIEWPOINTS INDEX

Chen, F. F.:
(*see* Jiang, Z. Y.)

Dye, C. -Y. and Hsieh, T. -P.:
Comment on 'Supply chain model for a deteriorating product with time-varying demand and production rate' by Giri and Maiti, 1693

Hsieh, T. -P.:
(*see* Dye, C. -Y.)

Janiak, A., Lichtenstein, M. and Kovalyov, M. Y.:
Comment on 'the strong NP-completeness of 3-PARTITION problem with $B \geqslant k^{m}$' by Zhongyi Jiang, Fangfang Chen, Chunqing Wu, 787

Jiang, Z. Y., Chen, F. F. and Wu, C. Q.:
The strong NP-completeness of 3-PARTITION problem with $B \geqslant k^{m}$, 786

Kovalyov, M. Y.:
(*see* Janiak, A.)

Lichtenstein, M.:
(*see* Janiak, A.)

Wu, C. Q.:
(*see* Jiang, Z. Y.)